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(71) Applicant (for all designated States except US): AP-PLIED RESEARCH SYSTEMS ARS HOLDING N.V. [NL/NL]; Pietermaai 15, Curação (AN).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): SOTO JARA, Claudio [CL/CH]; Chemin des Cherpines 11, CH-1228 Planles-Ouates (CH). PENA ROSSI, Claudia [AR/CH]; Rue Emile Yung 8, CH-1205 Geneva (CH).
- (74) Agent: SERONO INTERNATIONAL S.A. INTEL-LECTUAL PROPERTY; 12, Chemin des Aulx, CH-1228 Plan-les-Ouates (CH).

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: OX40R BINDING AGENTS

(57) Abstract: The present invention discloses peptides isolated from the extracellular domain of OX40 Ligand (OX40L) capable of binding OX40 Receptor (OX40R) and inhibiting OX40R-OX40L interaction. Such peptides, fusion proteins comprising them, as well as peptides and other molecules designed on their sequences, can be used as OX40R binding agents competing with natural OX40L for blocking OX40R-mediated cell signaling in the prophylaxis and/or treatment of diseases related to activated T cells.



Application No PCT/EP 03/50089

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K14/52 C07K14/705

G01N33/53

A61K38/00

C12N15/28 A61P31/00 C12N5/10 A61P35/00 C12N15/63 A61P37/00

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07K C12N G01N A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS

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X Fur	ther documents are listed in the continuation of box C.	X Patent family members are	listed in annex.		
"A" docum consi "E" earlier filing "L" docum which citatic "O" docum other	ategories of cited documents:  ment defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ment which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) ment referring to an oral disclosure, use, exhibition or means ment published prior to the international filing date but than the priority date claimed	or priority date and not in conflicited to understand the principle invention  "X" document of particular relevance cannot be considered novel or involve an inventive step when  "Y" document of particular relevance cannot be considered to involve document is combined with one ments, such combination being in the art.	<ul> <li>"X" docurrent of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled</li> </ul>		
Date of the actual completion of the International search		Date of mailing of the internation	Date of malling of the international search report		
	23 September 2003	08/10/2003			
Name and	mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Schönwasser, [	)		



Relevant to claim No.
Ticaran to dam No.
4,6-8, 10-14, 16,17
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4,6-8, 10-14, 16-18, 21-24, 30-33
4,6,8, 11-14
4,6,8, 11-14

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.....donal application No. PCT/EP 03/50089

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	rnational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Insofar as claims 19 to 21 and 30 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. X	Claims Nos.: 9,34 (no search); 2,5 (incomplete search) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	see FURTHER INFORMATION sheet PCT/ISA/210
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
1	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
	resultied to the invention mot monached in the claims, the covered by claims where
Dam	on Protest  The additional search fees were accompanied by the applicant's protest.
nemark	The additional search tees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 9,34 (no search); 2,5 (incomplete search)

Present claims 2 and 5 relate to an extremely large number of possible OX40R binding agents. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the binding agents claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the OX40R binding agents as defined in claim 1 and on page 7, 1. 24 to p. 8. 1.2

Present claim 9 relates to an extremely large number of possible OX40R binding agents. In fact, the claims contain so many options, variables and possible permutations that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, no search has been carried out for subject-matter of claim 9.

Further, present claim 34 relates to an extremely large number of possible kits for screening compounds. In fact, the claim contains so many options, variables and possible permutations that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claim impossible. Consequently, no search has been carried out for subject-matter of claim 34.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

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